



COMMONWEALTH of VIRGINIA

Doug Domenech
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
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David K. Paylor
Director

Maria R. Nold
Regional Director

May 1, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Edward G. Henifin
General Manager
Hampton Roads Sanitation District
1436 Air Rail Ave
Virginia Beach, VA 23455

RE: VPDES Permit No. VA0081299
Reissuance for HRSD-Nansemond STP
Suffolk, VA

Dear Mr. Henifin:

The enclosed effluent limitations and monitoring requirements for the above referenced permit have been approved. Additionally, enclosed are copies of the fact sheet pages that describe public participation in the permitting process. Please replace the pages in fact sheet that you received with the draft permit with these pages.

Your permit is also enclosed. In accordance with the permit, you are required to submit monitoring reports to the following address:

Department of Environmental Quality (DEQ)
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

The reporting forms are included with the permit. You will be responsible for obtaining additional copies of the reporting forms. The first report (DMR) is due for the month of December 2012 by January 10, 2013.

Please note that compliance with the permit's requirements for use and disposal of sewage sludge does not relieve you of your responsibility to comply with federal requirements set forth in 40 CFR Part 503. Until DEQ seeks and is granted authority to administer the Part 503 regulations by EPA, treatment works treating domestic sewage should continue to work directly with EPA to comply with them. For more information, you can call the EPA Region III office in Philadelphia at 215-814-5735.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court

of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1-44.16, 62.1-44.17, and 62.1-44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in Section 1.23(b) of the Board's Procedural Rule No. 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

A Reliability Class I is assigned to this facility and this facility has Class I licensed wastewater operator requirements.

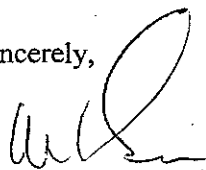
DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. We anticipate that in the near future all permittees will be participants in the e-DMR program. There are many benefits to both DEQ and the permittee when e-DMR is utilized for submissions:

- 1) Fewer revisions for data since the e-DMR program automatically flags omissions before the data is submitted;
- 2) Cost savings on postage, copying, and paper;
- 3) No concerns about using the most current DMR -- e-DMR refreshes the required parameters automatically when changes are needed;
- 4) Submittals can be made on a timelier basis; and
- 5) Electronic signatures from multiple people are allowed and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now so that we will be able to complete the application process when your permit is effective. The following website provides details and our regional e-DMR administrator Debbie Kay, phone 757-518-2127, Deborah.kay@deq.virginia.gov can also assist you:
<http://www.deq.virginia.gov/water/edmrfaq.html>

If you have any additional questions, please do not hesitate to contact Deanna Austin at 757-518-2008 or deanna.austin@deq.virginia.gov

Sincerely,



Mark H. Sauer
Water Permit Manager

MHS/DDA

cc: DEQ - TRO File ECM
EPA - Region III (3WP12)

Encl: Permit No. VA0081299
Revised Fact Sheet Pages

7. PERMIT CHARACTERIZATION: (Check as many as appropriate)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Existing Discharge | <input checked="" type="checkbox"/> Effluent Limited |
| <input type="checkbox"/> Proposed Discharge | <input checked="" type="checkbox"/> Water Quality Limited |
| <input checked="" type="checkbox"/> Municipal | <input type="checkbox"/> WET Limit |
| <u>SIC Code #4952</u> | <input type="checkbox"/> Interim Limits in Permit |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Interim Limits in Other Document |
| SIC Code(s) | <input type="checkbox"/> Compliance Schedule Required |
| <input checked="" type="checkbox"/> POTW | <input type="checkbox"/> Site Specific WQ Criteria |
| <input type="checkbox"/> PVOTW | <input type="checkbox"/> Variance to WQ Standards |
| <input type="checkbox"/> Private | <input type="checkbox"/> Water Effects Ratio |
| <input type="checkbox"/> Federal | <input checked="" type="checkbox"/> Discharge to 303(d) Listed Segment |
| <input type="checkbox"/> State | <input checked="" type="checkbox"/> Toxics Management Program Required |
| <input type="checkbox"/> Publicly-Owned Industrial | <input type="checkbox"/> Toxics Reduction Evaluation |
| | <input type="checkbox"/> Storm Water Management Plan |
| | <input checked="" type="checkbox"/> Pretreatment Program Required |
| | <input type="checkbox"/> Possible Interstate Effect |
| | <input checked="" type="checkbox"/> CBP Significant Dischargers List |

8. RECEIVING WATERS CLASSIFICATION: River basin information.

Outfall No: 001

Receiving Stream: Hampton Roads Harbor (James River)

River Mile: 2-JMS006.98

Basin: James River (Lower)

Subbasin: N/A

Section: 1

Class: II

Special Standard(s): a, z

Tidal: YES

7-Day/10-Year Low Flow: N/A

1-Day/10-Year Low Flow: N/A

30-Day/5-Year Low Flow: N/A

Harmonic Mean Flow: N/A

Outfall No(s): 002-007

Receiving Stream: Streeter Creek to Hampton Roads Harbor

River Mile: 2-JMS006.98

Basin: James River (Lower)

Subbasin: N/A

Section: 1

Class: II

Special Standard(s): a, z

Tidal: YES

7-Day/10-Year Low Flow: N/A

1-Day/10-Year Low Flow: N/A

30-Day/5-Year Low Flow: N/A

Harmonic Mean Flow: N/A

9. FACILITY DESCRIPTION: Describe the type facility from which the discharges originate.

Existing municipal discharge resulting from the discharge of treated domestic sewage.

10. LICENSED OPERATOR REQUIREMENTS: () No (X) Yes Class: I

11. RELIABILITY CLASS: I

22. **SLUDGE DISPOSAL PLAN:** Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge from this facility is dewatered with centrifuges and then burned in HRSD incinerators, primarily at Boat Harbor STP. The primary back-up plan is to haul the sludge for composting to McGill Environmental Systems in Waverly, VA. The secondary back-up plan is to haul the sludge to the HRSD Atlantic Plant for land application.

SEE ATTACHMENT 6

23. **MATERIAL STORED:** List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

The materials stored on site include sodium hypochlorite, sodium bisulfate, sodium hydroxide, ferric chloride, polymer, fuel oil, propane, ammonia, glycerol, methanol, struvite, gasoline and diesel fuel. The materials are either stored in buildings with drains connected to the treatment system or are in contained areas. Fuel tanks are double walled.

24. **RECEIVING WATERS INFORMATION:** Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.)]. Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 9

25. **303(d) Listed Segments:** Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to James River (Hampton Roads Harbor). This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of 1) dissolved oxygen standard for open water - summer months, 2) fish consumption due to PCB in fish tissue 3) Chlorophyll-a.

EPA approved Nitrogen, Phosphorus and TSS TMDL for the Chesapeake Bay TMDL on December 29, 2010. This facility was listed under the Bay Segment JMSMH as a non-significant discharger and was not assigned an individual waste load allocation for the parameters listed above.

The permit contains water quality based limits for TSS and technology based limits for TP and TN.

26. **CHANGES TO PERMIT:** Use TABLE III(a) to record any changes from the previous permit and the rationale for those changes. Use TABLE III(b) to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 10

27. NPDES INDUSTRIAL PERMIT RATING WORKSHEET:

TOTAL SCORE:

N/A - This is a municipal facility.

28. DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from DEQ planning.

The discharge is not addressed in any planning document but will be included when the plan is updated.

29. PUBLIC PARTICIPATION: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and noted how resolved.

The VDH waived their right to comment and/or object the adequacy of the draft permit. Memo received 2/15/12

The DSS waived their right to comment and/or object the adequacy of the draft permit. Email received 3/12/12.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit. Email received 4/19/12.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

Persons may comment in writing or by e-mail to the DEQ on the proposed reissuance of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Deanna Austin at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2008 E-mail: deanna.austin@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed reissuance. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:

Final Total Residual Chlorine:	<p>A weekly average of 2.4 mg/l. A monthly average of 0.20 mg/l. This is a technology based limit following guidance document 00-2011 and is carried forward from the current permit. Monitoring is required once/day by grab sample. The frequency is based on the VPDES permit manual and is standard for municipal discharges of >2.0 MGD.</p>
Total Phosphorus Calendar Year	<p>An annual average concentration limit of 2.0 mg/l is placed in the permit with monitoring on an annual basis. Additional nutrient monitoring and reporting is covered under the General VPDES Watershed Permit for Total Nitrogen and Total Phosphorus. The Nansemond HRSD facility is covered under VAN040090. On 5/16/07 guidance document 07-2008 was released by DEQ Central Office for the implementation of the nutrient general permit in relation to the individual permit. The guidance states (pg 17) that the annual concentration limit be included at the next permit reissuance/modification after the effective dated of the Watershed general permit total phosphorus limit. HRSD chose to accept the Total Phosphorus limit for the James River bubble permit on January 1, 2007; therefore the concentration average limit was changed from monthly to annual. This is carried forward in this reissuance.</p>
Total Phosphorus Year-to-Date	<p>There is no limit for the monthly average TP Year-to-date parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M and is a calculation. Data for this parameter is collected in accordance with the VPDES permit VAN040090 for the James River Watershed held by HRSD.</p>
Total Phosphorus	<p>There is no limit for the monthly average phosphorus parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M. Data for this parameter is collected in accordance with the VPDES permit VAN040090 for the James River Watershed. Reporting for this parameter is required in the individual permit (IP) because the annual concentration limits is contained in the IP. All data used to calculate and determine compliance with the limit in the IP needs to be in the same document and reported on the same form as the limit.</p>
Total Nitrogen Calendar Year	<p>A limit of 8.0 mg/l will be added for Total Nitrogen as a final limit. Part I Section C.4. of the permit states that upon issuance of a CTC, DEQ staff shall initiate modification of the permit to include annual concentration limits based on the nutrient removal technologies listed in the CTC. The CTC for this facility was issued on 8/28/09 and the permit modified to include the TN limit. The CTO was issued on 7/6/11. The limit of 8.0 is in accordance with the significant figure guidance document 06-2016.</p>